

WHAT IS CLAIMED IS:

1. A liquid-cooled mold for continuous casting of metals, comprising:  
mold plates made of one of copper and a copper alloy, which are connected respectively to one of an adapter plate and a cooling-water tank by clamping bolts, wherein the clamping bolts are fastened to plateau pedestals projecting from a cooling arrangement side of the mold plate, which jut at least partially into a cooling arrangement gap formed between the mold plates and one of the adapter plate and the cooling-water tank, and have a streamlined shape adjusted to a flow direction of the cooling arrangement.
2. The mold according to claim 1, wherein the clamping bolts engage with threaded inserts fixed in the plateau pedestals.
3. The mold according to claim 1, wherein the plateau pedestal is configured to be rhombus-shaped.
4. The mold according to claim 1, wherein the mold plate is supported via the plateau pedestals on one of the adjoining adapter plate and on the adjoining cooling-water tank.
5. The mold according to claim 1, wherein the plateau pedestals have a transition region that is rounded towards the mold plate.
6. The mold according to claim 1, wherein the plateau pedestals are formed as one piece with the mold plate.
7. The mold according to claim 1, wherein the plateau pedestals are connected integrally to the mold plate.
8. The mold according to claim 1, wherein the mold plates have a wall thickness which is less than 2.5 times the diameter of the clamping bolts.

9. The mold according to claim 1, wherein the cooling arrangement gap is connected in a fluid-conducting manner to the cooling arrangement ducts which penetrate the adapter plate.

10. The mold according to claim 1, wherein a mold plate with a small wall thickness and the adapter plate form a preassembled plate unit connectible to a cooling-water tank, for exchanging with mold plates of the same overall dimensions and connecting measurements as the plate unit.

11. The mold according to claim 1, wherein the mold plate is made of an aged copper material having a yield strength of more than 300 Mpa.

12. The mold according to claim 1, wherein a wall thickness of the mold plate measured between the cooling arrangement channel and the casting side is between 5 mm and 25 mm.

13. The mold according to claim 1, wherein the mold plate has a length of 1.0 through 1.5 m as measured in a casting direction.

14. The mold according to claim 1, wherein the plateau pedestal is positioned at a mutual distance of approximately 50 mm through 250 mm.

15. The mold according to claim 1, wherein a sliding aid making easier relative motions is incorporated between the surface of the plateau pedestals and one of an adapter plate and a cooling-water tank.

16. The mold according to claim 15, wherein the sliding aid is a coating based on polytetrafluoroethylene.

17. The mold according to claim 16, wherein the sliding aid is a sliding disk.

18. The mold according to claim 1, wherein the clamping bolts allow a relative displacement of the mold plate with respect to one of the adjoining adapter plate and to the adjoining cooling-water tank.

19. The mold according to claim 1, wherein the surfaces of the plateau pedestals lying up against one of an adapter plate and against a cooling-water tank lie in planes that are parallel to one another.

20. The mold according to claim 1, wherein the mold plate is provided with a diffusion barrier in a contact region with a steel melt that is thermally most stressed, in a height range of a casting bath level.

21. The mold according to claim 1, wherein the mold plates are provided with a wear-resistant layer below the casting bath level in a casting direction, a layer thickness of the wear-resistant layer increasing in the casting direction.

22. The mold according to claim 21, wherein the layer thickness increases from approximately 0.1 mm to approximately 1 mm.